

**STATEMENT OF BASIS  
PIERCE COUNTY PUBLIC WORKS & UTILITIES  
CHAMBERS CREEK WASTEWATER TREATMENT PLANT  
NATIONAL POLLUTANT DISCHARGE  
ELIMINATION SYSTEM (NPDES) PERMIT NO. WA0039624**

The purpose of this Statement of Basis is to explain why the Department of Ecology (Ecology) is requiring nutrient (both nitrogen and phosphorus) monitoring.

**I. GENERAL INFORMATION**

- A. Permittee: Pierce County Public Works & Utilities  
Chambers Creek Wastewater Treatment Plant  
9850 Chambers Creek Road  
University Place, WA 98467-1040
- B. Discharge Location: Puget Sound  
Latitude: 47° 11' 41.5" N  
Longitude: -122° 35' 2.1" W

**II. REQUEST FOR MODIFICATION**

Ecology is requiring nutrient (both nitrogen and phosphorus) monitoring for all municipal wastewater treatment plants discharging to Puget Sound or freshwaters that drain to Puget Sound. Excess nutrients may lead to low levels of dissolved oxygen in the Sound. The objective of this monitoring is to characterize nutrient loading into and from the treatment plants. In addition, this monitoring will provide data that Ecology will use in its on-going study of the affects of nutrients on dissolved oxygen in Puget Sound. For more information on Ecology's Puget Sound efforts, see:

[http://www.ecy.wa.gov/puget\\_sound/dissolved\\_oxygen\\_study.html](http://www.ecy.wa.gov/puget_sound/dissolved_oxygen_study.html)

Ecology is adding nutrient monitoring for wastewater influent on section S2 (page 7) of the permit per the following schedule:

Category	Parameter	Units	Minimum Sampling Frequency	Sample Type
Wastewater Influent	Total Ammonia as N	mg/L	monthly	grab
Wastewater Influent	Nitrate + Nitrite as N	mg/L	monthly	24-hour composite
Wastewater Influent	Total Kjeldahl Nitrogen (TKN) as N	mg/L	monthly	24-hour composite
Wastewater Influent	Ortho-phosphate (PO <sub>4</sub> ) as P	mg/L	monthly	24-hour composite

Category	Parameter	Units	Minimum Sampling Frequency	Sample Type
Wastewater Influent	Total Phosphorus as P	mg/L	monthly	24-hour composite

Ecology is adding nutrient monitoring for wastewater effluent on section S2 (page 8) of the permit per the following schedule:

Category	Parameter	Units	Minimum Sampling Frequency	Sample Type
Wastewater Effluent	Nitrate + Nitrite as N	mg/L	monthly	24-hour composite
Wastewater Effluent	Total Kjeldahl Nitrogen (TKN) as N	mg/L	monthly	24-hour composite
Wastewater Effluent	Ortho-phosphate (PO <sub>4</sub> ) as P	mg/L	monthly	24-hour composite
Wastewater Effluent	Total Phosphorus as P	mg/L	monthly	24-hour composite

This Statement of Basis will serve as an amendment to the fact sheet and permit.